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Environmental, Chemistry & Hazardous Materials News, Information & Resources

Chemical Database

Methyl Methacrylate

Identifications

- **Formula:** $\text{CH}_2=\text{C}(\text{CH}_3)\text{COOCH}_3$
Elements: Carbon, Hydrogen, Oxygen
- **CAS Number:** 80-62-6
- **UN/NA ID:** UN1247 (inhibited)
- **CCOHS Record Number:** 426
- **RCRA Waste Number:** U162
- **RTECS Number:** OZ5075000
- **Synonyms:**
 - 2-(Methoxycarbonyl)-1-propene
 - 2-Methyl 2-propenoic acid, methyl ester
 - 2-Methyl propenoic acid, methyl ester
 - 2-Methyl-2-propenoic acid methyl ester
 - 2-Propenoic acid, 2-methyl-, methyl ester
 - Acrylic acid, 2-methyl-, methyl ester
 - DIAKON
 - Metakrylan metylu
 - Metakrylan metylu (POLISH)
 - Methacrylate de methyle
 - Methacrylate de methyle (FRENCH)
 - Methacrylic acid, methyl ester
 - Methacrylsaeuremethyl ester
 - Methacrylsaeuremethyl ester (GERMAN)
 - Methyl 2-methyl propenoate
 - Methyl 2-methyl-2-propenoate
 - Methyl 2-methylpropenoate
 - Methyl alpha-methyl acrylate
 - Methyl alpha-methylacrylate
 - Methyl Methacrylate
 - Methyl methacrylate monomer
 - Methyl methylacrylate
 - Methyl-methacrylat
 - Methyl-methacrylat (GERMAN)
 - Methylester kyseliny methakrylove

- o Methylmethacrylaat
- o Methylmethacrylaat (DUTCH)
- o Methylmethacrylate
- o Methylpropylene-2-carboxylate
- o Metil metacrilato
- o Metil metacrilato (ITALIAN)
- o MMA
- o MME
- o Monocite methacrylate monomer
- o NCI-C50680
- o Pegalan

Properties

- **Incompatibilities:**

- o moisture
- o nitrates
- o oxidizers
- o peroxides
- o strong alkalis

Health & Regulatory Guidelines

- **EPA Regulations:**

- o Reportable Quantity: 1000 Lbs

- **NFPA 704 Rating:**

- o Health Hazard Rating: 2
- o Fire Hazard Rating: 3
- o Reactivity Hazard Rating: 2

- **NIOSH Guidelines:**

- o TWA: 100 ppm
- o IDLH: 1000 ppm
- o Conversion: 1 PPM = 4.09 mg/m³@ 25°C & 1ATM

- **OSHA Regulations:**

- o TWA: 100 ppm
- o TWA Vacated: 100 ppm

- **Health Risks:** Harmful

- **Sensitization Risk:** Yes

- **Notes:** May polymerize if subjected to heat, oxidizers, or ultraviolet light. Usually contains an inhibitor such as hydroquinone.

Notes about mixtures

Some chemicals listed in this database are not pure chemical compounds, rather they are mixtures of compound. It is not uncommon for wide range of molar ratios of a mixture to be lumped together as "synonyms" of the same "chemical" with the same CAS number.

Trademarks

If you are aware of any synonyms listed above that are registered trademarks, please contact us with relevant information so that trademarks can be appropriately noted.

Sources

Data for this database was compiled from: hundreds of Material Safety Data Sheets (MSDS) of common industrial and household products; the Hazardous Materials Table from the United States "Code of Federal Regulations" title 49 section 172.101; the National Institute for Occupational Safety and Health Pocket Guide to Chemical Hazards; the 2004 Emergency Response Guidebook; and many other related resources.

If you have detailed information on a chemical compound we are missing; know of resources (including public domain databases, or financial grants that would allow us to license databases); or are responsible for a database of chemical compounds and would like to partner with EnvironmentalChemistry.com; please **contact us**. Of particular short term interest to us is a table of data the cross references chemical formula to CAS Number or chemical name.

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